

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously amended) A method of preconditioning a resin useful for removal of organic impurities from a hydrogen peroxide solution, comprising the steps of:

- (a) rinsing the adsorbent resin with deionized water;
- (b) contacting the adsorbent resin with an acid solution; and
- (c) rinsing the acid-treated adsorbent resin with deionized water.

Claim 2 (original) The method of claim 1, wherein the acid solution is selected from the group consisting of a hydrochloric acid solution, a nitric acid solution and a sulfuric acid solution.

Claim 3 (original) The method of claim 2, wherein the acid solution is a hydrochloric acid solution.

Claim 4 (original) The method of claim 3, wherein the molar ratio of hydrochloric acid to water in the hydrochloric acid solution is from about 1:100 to 1:90.

Claim 5 (original) The method of claim 1, wherein step (b) is conducted for from about 3 to 8 hours.

Claim 6 (previously amended) The method of claim 1, wherein step (b) comprises soaking the adsorbent resin in the acid solution in a batch mode.

Claim 7 (previously amended) The method of claim 1, wherein step (b) further comprises separating the acid solution into a first portion and a second portion,

soaking the adsorbent resin in the first portion of the acid solution in a batch mode, separating the adsorbent resin from the first portion of the acid solution and rinsing the adsorbent resin with the second portion of the acid solution.

Claim 8 (previously amended) The method of claim 1, wherein the contacting in step (b) comprises introducing the adsorbent resin and the acid solution into a vessel separating the adsorbent resin and the acid solution and contacting the adsorbent resin with a second acid solution.

Claim 9 (previously amended) The method of claim 1, wherein the adsorbent resin is hydrophobic.

Claim 10 (previously amended) The method of claim 9, wherein the adsorbent resin is AMBERLITE XAD-4 or AMBERSORB 563.

Claim 11 (currently cancelled)

Claim 12 (currently cancelled)

Claim 13 (currently cancelled)

Claim 14 (currently cancelled)

Claim 15 (currently cancelled)

Claim 16 (currently amended) The method of claim ~~45~~ 25, wherein the hydrogen peroxide solution has a hydrogen peroxide concentration of 50 wt% or less.

Claim 17 (original) The method of claim 16, wherein the hydrogen peroxide solution has a hydrogen peroxide concentration of about 30 wt%.

Claim 18 (previously amended) The method of claim 45 25, wherein the adsorbent resin is hydrophobic.

Claim 19 (previously amended) The method of claim 18, wherein the adsorbent resin is AMBERLITE XAD-4 or AMBERSORB 563.

Claim 20 (original) The method of claim 45 25, wherein the temperature of the hydrogen peroxide solution inside the column is essentially constant during the step of passing the hydrogen peroxide solution through the column.

Claim 21 (previously amended) The method of claim 45 25, wherein the hydrogen peroxide concentration in the hydrogen peroxide solution is maintained essentially constant during the step of contacting the adsorbent resin with the hydrogen peroxide solution.

Claim 22 (original) The method of claim 45 25, wherein the hydrogen peroxide solution is passed through the column in an upflow mode.

Claim 23 (original) The method of claim 45 25, further comprising passing the hydrogen peroxide solution through a second column for removing organic impurities from the hydrogen peroxide solution, connected in series with and downstream from the first column.

Claim 24 (previously amended) The method of claim 45 25, further comprising passing the hydrogen peroxide solution through one or more columns containing an ion-exchange resin bed after passing the hydrogen peroxide solution through the column containing the preconditioned adsorbent resin.

Claim 25 (new) A method of removing organic impurities from a hydrogen peroxide solution, comprising:

- (a) rinsing an adsorbent resin with deionized water;
- (b) contacting the adsorbent resin with an acid solution;
- (c) rinsing the acid treated adsorbent resin with deionized water;
- (d) introducing the adsorbent resin into an adsorbent resin bed contained within a column;
- (e) passing the hydrogen peroxide solution through the column containing the adsorbent resin, the hydrogen peroxide solution having not passed through ion-exchange resin.

Claim 26 (new) An adsorbent resin preconditioned by the method comprising:

- (a) rinsing the adsorbent resin with deionized water;
 - (b) contacting the adsorbent resin with an acid solution, and
 - (c) rinsing the acid-treated adsorbent resin with deionized water,
- wherein said preconditioned resin is effective to maintain an essentially constant temperature when contacted with a hydrogen peroxide solution for at least eleven hours.